IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1-29. (Canceled)
- 1 1-52. (Canceled)
- 1 53. (New) A formatting template for printing an XML document, comprising an
- 2 XML Descriptor (XMD) associated with an XML data element of the XML document,
- 3 wherein the XMD is identified by an associated qualified tag having a concatenation of a
- 4 plurality of XML start tags representing start tags hierarchically traversed in the XML
- 5 document to reach the XML data element, the XMD providing formatting to content
- 6 associated with the XML data element.
- 1 54. (New) The formatting template of claim 53, wherein the data map comprises
- 2 a chain of XML descriptors for formatting attributes if XML elements.
- 1 55. (New) The formatting template of claim 53, wherein an XML descriptor that
- does not have a matching qualified tag is skipped and a next XML descriptor matching a start
- 3 tag is used in formatting the XML data.

1 56. (New) A printing system, comprising: 2 a spooler for receiving printable information from the print channel; 3 a print services facility for parsing an XML file; and 4 a printer for printing the print steam according to the formatting defined by the 5 formatting template; 6 wherein the formatting template includes an XML Descriptor (XMD) 7 associated with an XML data element of the XML document, wherein the XMD is identified 8 by an associated qualified tag having a concatenation of a plurality of XML start tags 9 representing start tags hierarchically traversed in the XML document to reach the XML data 10 element, the XMD providing formatting to content associated with the XML data element. 1 57. (New) The formatting template of claim 56, wherein the data map comprises 2 a chain of XML descriptors for formatting attributes if XML elements. 1 58. (New) The formatting template of claim 56, wherein the parser skips an XML 2 descriptor that does not have a matching qualified tag and uses a next XML descriptor having 3 a matching start tag to format the XML data. 1 59. (New) The formatting template of claim 56 further comprising a buffer for 2 storing start tags in order as the XML file is parsed.

1 60. (New) A method for printing XML documents directly using a formatting 2 template, comprising: 3 placing an XML document to be printed on a server spool; 4 parsing the XML document to identify start tags hierarchically traversed in the XML 5 document to reach an XML data element; 6 searching a data map comprising XML descriptors identified by an associated 7 qualified tag having a concatenation of a plurality of XML start tags until a qualified tag 8 associated with an XML descriptor matches the identified start tags hierarchically traversed 9 in the XML document to reach the XML data element; 10 formatting the XML data element according the XML descriptor associated with the 11 qualified tag having a concatenation of a plurality of XML start tags matching the identified 12 start tags hierarchically traversed in the XML document to reach the XML data element; 13 merging the XML element associated with the XML descriptor associated with the 14 qualified tag having a concatenation of a plurality of XML start tags matching the identified 15 start tags hierarchically traversed in the XML document to reach the XML data element to 16 produce a formatted print data stream; and 17 printing a document using the produced formatted print data stream. 1 61. (New) The method of claim 60 further comprising skipping an XML 2 descriptor that does not have a matching qualified tag and using a next XML descriptor 3 matching a start tag to format the XML data.

1 62. (New) An article of manufacture comprising a program storage medium 2 readable by a computer, the medium tangibly embodying one or more programs of 3 instructions executable by the computer to perform a method for printing XML files directly 4 using a formatting template, the method comprising: 5 placing an XML document to be printed on a server spool; 6 parsing the XML document to identify start tags hierarchically traversed in the XML 7 document to reach an XML data element; 8 searching a data map comprising XML descriptors identified by an associated 9 qualified tag having a concatenation of a plurality of XML start tags until a qualified tag 10 associated with an XML descriptor matches the identified start tags hierarchically traversed 11 in the XML document to reach the XML data element; 12 formatting the XML data element according the XML descriptor associated with the 13 qualified tag having a concatenation of a plurality of XML start tags matching the identified 14 start tags hierarchically traversed in the XML document to reach the XML data element; 15 merging the XML element associated with the XML descriptor associated with the 16 qualified tag having a concatenation of a plurality of XML start tags matching the identified 17 start tags hierarchically traversed in the XML document to reach the XML data element to 18 produce a formatted print data stream; and 19 printing a document using the produced formatted print data stream. 1 63. (New) The article of manufacture of claim 41 further comprising skipping an 2 XML descriptor that does not have a matching qualified tag and using a next XML descriptor 3 matching a start tag to format the XML data.